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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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10/31/2008

BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747 EXAMINER

DWIVEDI, MAHESH H

ART UNIT PAPER NUMBER

2168

DATE MAILED: 10/31/2008

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/720,262	11/25/2003	Bjorn-Harald Sjogren	1380-0255PUS1	4105

TITLE OF INVENTION: DATABASE CONSTRAINT ENFORCER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	02/02/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	YES	\$755	\$300	\$0 <b>-</b>		\$1055	02/02/2009
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DWIVEDI, I	MAHESH H	2168	707-008000				
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10/720,262	11/25/2003	Bjorn-Harald Sjogren	1380-0255PUS1 4105		
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BIRCH STEWA	RT KOLASCH & B	DWIVEDI, MAHESH H			
PO BOX 747			ART UNIT	PAPER NUMBER	
FALLS CHURCH	, VA 22040-0747		2168		
			DATE MAILED: 10/31/2008		

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 204 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 204 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/720,262	SJOGREN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	MAHESH H. DWIVEDI	2168	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED ir ) or other appropriate commu RIGHTS. This application is s	ithis application. If not included inication will be mailed in due cours	
1. This communication is responsive to <u>08/18/2008</u> .			
2. The allowed claim(s) is/are <u>31-32, 35-37, 40-42, and 45-4</u>	8 (renumbered as claims 1-1	<u>2)</u> .	
<ol> <li>Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> </ol> * Certified copies not received:	e been received. e been received in Applicatio	n No	om the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.		
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>			E OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	ist be submitted.		
(a) ☐ including changes required by the Notice of Draftsper	son's Patent Drawing Review	v ( PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	_•		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>			he
Attachment(s)	5 <b></b>		
1. Notice of References Cited (PTO-892)		formal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No./	ummary (PTO-413), Mail Date	
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>5/10/04</u></li> </ol>	/. ∐ Examiner's	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		Statement of Reasons for Allowanc	е
(M. I I I I I I I I I I I I I I I I I	9. ☐ Other	<u>-</u> ·	
/Mahesh H Dwivedi/ Examiner, Art Unit 2168	/Tim T. Vo/ Supervisory Pa	ent Examiner, Art Unit 2168	

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Art Unit: 2168

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/5/2006 has been entered.

#### Remarks

2. Receipt of Applicant's Preliminary Amendment, filed on 08/18/2008, is acknowledged. The amendment includes the cancellation of claims 19-30, 33-34, 38-39, and 43-44, the amending of claims 31, 36, and 41, and the addition of claims 46-48.

## Allowable Subject Matter

3. Claims 31-32, 35-37, 40-42, and 45-48 are allowed and now renumbered as 1-12.

### Reasons for Allowance

4. The following is an examiner's statement for reasons for allowance:

Prior art fails to teach a combination of elements including wherein the check stack contains list of functions that have to be executed at the end of the transaction, said functions originating from Insert, Delete, and Update Data Manipulation Language (DML) operations calling up the stack maker module;

The Insert DML operation calling up the stack maker module leading to an insert process being performed on the check stack;

The insert process involving placing all checks that have to be executed as a result of an occurrence of a table type being inserted and corresponding conceptual rules being identified for the table type being inserted; and

The Update DML operation calling up the stack maker module leading to said delete process followed by said insert process being performed on the check stack, as recited in independent claims 31, 36, and 41.

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Art Unit: 2168

Specifically, the prior art generally mentions using insert, update, and delete operations for database constraint enforcement, but does not mention using an insert after a delete operation, nor inserting and deleting processes on a check stack.

These features, together with the other limitations of the independent claims are novel and non-obvious over the prior art of record. The dependent claims 32, 35, 37, 40, 42, and 45-48 as being definite, enabled by the specification, and further limiting to the independent claim, are also allowable.

#### **Contact Information**

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mahesh Dwivedi whose telephone number is (571) 272-2731. The examiner can normally be reached on Monday to Friday 8:20 am – 4:40 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Vo can be reached (571) 272-3642. The fax number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mahesh Dwivedi Patent Examiner Art Unit 2168

October 09, 2008

/Mahesh H Dwivedi/
Examiner, Art Unit 2168

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Art Unit: 2168

/Tim T. Vo/

Supervisory Patent Examiner, Art Unit 2168